



PATENT

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of

Markus PROBST

Art Unit:

Application No: 09/811,059

Examiner:

Filed: March 15, 2001

For: APPARATUS FOR MEASURING SCATTERED
RADIATION

PRELIMINARY AMENDMENT

Commissioner for Patents
Washington, D.C. 20231

Sir:

Please make the following amendments to this application prior to
examination thereof.

AMENDMENTS

In the Claims:

Claims 3-14, cancel.

Add new claims as follows:

15. (New) The apparatus of claim 1, wherein, the deflection element
(8, 9) is comprised of a reflecting prism.

16. (New) The apparatus of Claim 15, wherein, the reflecting prism
(8, 9) has a radiation entry/exit surface (10) which is configured as a
nonplanar aspherical surface in the deflection element.

17. (New) The apparatus of claim 1, wherein, the optical deflection
element (8, 9) has an entry surface/exit surface (10) that is disposed in
such a way that the center beam enters/exits perpendicularly, and a
deflection surface that is disposed in such a way that the center beam is
reflected in the interior of the deflection element.

18. (New) The apparatus of Claim 17, wherein the entry surface/exit
surface (10) is curved in such a way that the beams emitted by the sender
or leaving the deflection element travel in the deflection element parallel
to the optical axis of the surface.

19. (New) The apparatus of Claim 17, wherein total reflection is
achieved at the deflection surface by properly selecting the angle of
incidence (α) and the material.